Lesson 3 - Entering a BRT Test

In this lesson you'll accomplish the following:

- ✎ Create a Premises record with a Premises Type of BRTPUP.
- ✎ Enter Event Summary information that records all collections from all PUPs for a round.
- ✎ Create Sample records that contain the data for each individual patron for the round.
- ✎ Query the Patron Exceptions form to update Patron records.
- ✎ Learn how to use the Generate Patrons process.

The purpose of BRT recording and reporting is to ensure that each dairy herd, subject to BRT testing, has at least one Sample record with the dairy herd's prem-id on it linked with at least one patron-nr at one Pickup Point (PUP) in each round, with an acceptable round interp, or to determine which do not.

The BRT system uses three primary tables:

Premises - used for three types of records: the BRT Pickup Point, the dairy herd Premises, and a special record representing the state's BRT program.

Event Summary - contains round information, giving the beginning and ending dates of the round, and the summary totals of nr_neg and nr_pos for the round for the entire state. It is created by the Generate Patron automated process under normal circumstances**.** It could be created manually if desired, but this can cause record duplication problems resulting in an error message of TOO_MANY_ROWS.

Sample - records each patron's round collection activity. It is the "patron round record," the most critical record for BRT. Under most circumstances, the patron round record is created by the Generate Patron automated process. It is based on a patron round record from a previous round.

Records in these tables may be created/accessed using the Premises, Event Summary and Sample forms. The Generate Patrons automated process also creates new records. (See exercises 2, 4, 5, and 6.) The BRT system also has a special form: **Patron Exceptions** is used to modify herd links or patron round interps. New records cannot be created using this form. This form is sometimes called the patron update form.

Exercise 1 - Creating a BRT Premises record

Step 1

Access the Premises form. Begin by clicking on the Generic Data Base option from the Main menu. Click on Forms from the Generic Data Base menu. Click on Premises from the Forms menu. (Refer to Lesson 1, Exercise 1.)

Step 2

Each state must create a Premises record representing the State BRT program with a Prem ID consisting of the State code plus BRT, i.e., NYBRT. The Prem Name uses the state code followed by a space and BRT Program, i.e., NY BRT Program. Enter **000** for Prem County. Enter **BOV** in the Species field of the Supplemental Information block. Enter **BRTPUP** in the Prem Type field.

Step 3

If the Premises record refers to a pickup point (PUP), it must have a Prem Type of **BRTPUP**. Premises records that refer to a dairy farm that contributes to the pickup point must have a Prem Type of **DRY**.
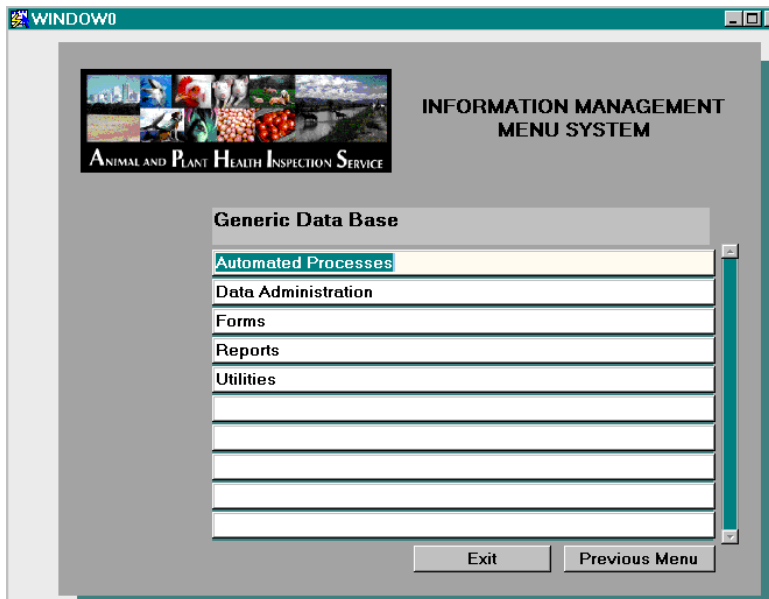

Step 4

After all required fields have been entered, press **F10** to commit the record. Exit the form by pressing **CTRL-Q** or clicking on the **Exit** button.
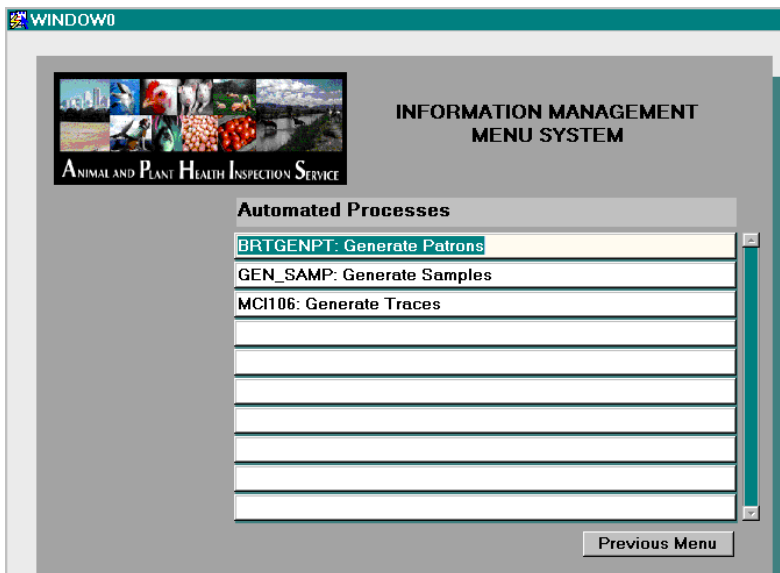
Exercise 2 - The Generate Patrons process

Step 1

Use the Generate Patrons process to automatically create Event Summary records. Access the Automated processes option from the Generic Data Base menu.

Step 2

Select the Generate Patrons option from the Automated Processes menu.

Step 3

You can generate Patron records for one PUP at a time or all PUPs at one time. To do all PUPs at a time, click on the **All PUPs** button. It is not necessary to enter a PUP ID or a PUP State.

To generate patrons one PUP at a time, enter the PUP State and PUP ID. The system will automatically fill in the PUP name.

Step 4

Enter the Previous Round number. The Round-NR is in the format yyyynnn, i.e., 1999002. The system will automatically fill in the Begin and End dates. Enter the New Round number. If the Round Summary record does not exist, also enter the Begin and End dates. Click on the **Create new round from previous** button. If the new Round Summary record already exists, and the system automatically filled in the Begin and End dates, **do not** click on the **Create new round from previous** button.

NOTE: If the PUP ID is not known, query the data base using the Patron Exceptions form on page 3.10.

Step 5

After creating the Summary, Patron records can be generated. Enter the desired Round Interp, Collection Date and Test Date with which the Patrons should be generated. Click on the **Generate Patrons** button to generate patrons interactively. Alternatively, if you want to generate patrons in Batch mode, click the **Add to Batch** button, then click the **Save** button. To generate the next PUP click on the **New** button. After several PUPs have been prepared, click on the **Generate Batched Patrons** button to start the Generate Patrons process.

NOTE: Click the **Save** button after completing each Generate Patron process. If not, you will lose the patrons processed for the round. If you are generating by batch, click the **Save** button after adding to batch and before clicking on the **Generate Batched Patrons** button. You can generate batched patrons at a later time if desired.

Exercise 3 - Entering BRT Event Summary, Sample Information and Test Results

NOTE: Initial PUP Round data entry is done manually only when the GDB has never had BRT records uploaded from another data base or been used for BRT data entry. In that case, the Event Summary record must be created manually. Normally, BRT data entry is NOT done using the Event Summary and Sample forms. In most cases, BRT records are created though the Generate Patrons automated process. (See Exercise 2.) The process described in this exercise is used only when no BRT records exist and the system is being set up for the first time. (See Exercise 5 & 6 for more detail.)

Step 1

Access the Event Summary form. Begin by clicking on the Generic Data Base option from the Main menu. Click on Forms from the Generic Data Base menu. Click on Event Summary from the Forms menu.

NOTE: The Event Summary form may be used to summarize collections of instate patrons from all PUPs for a round. Refer to the monthly report (BRTNTL) to find values to enter in summary totals, if desired, but entry of these values is not required.

Step 2

The cursor will be located in the Disease field of the Disease Program Information block. The form is in Query mode. The standard label set for BRT data entry is **BR, BOV, BRT**. Press **F8** to execute the query. The cursor will move to the Prem ID field of the Premises Query block in Query mode.

Step 3
Enter the BRT State Prem ID and press **F8**. Each state has one Prem ID record to represent the state BRT program. When the Premises record is retrieved, the cursor will move to the Disease field in the Event Summary Information block.

Step 4

Data entry in highlighted (or shaded) fields of the Event Summary Information block is required. Default values will be provided for the Disease, Species, Prem ID, Event Type and Lab State fields. Use the information below to guide BRT data entry in the Event Summary form:

Event Type   = BRT
Event Date   = (Round Begin Date) The beginning date of the round
Test Rsn   = BRT
Event Seq NR = Round NR
Event2 Date   = (Round End Date) Ending date of the round
Paycode   = 0

Although the Event Summary record can be created by the Generate Patron process from the Automated Processes menu (see Exercise 2), the Generate Patron process will not create Nr Neg or Nr Pos totals. You must enter data in those fields.

Below is a macro that can be used to generate summary counts (of N, S, and others) at end of a round:

select id1 pupid,test_interp ti, count(*) samples
from gdb_sample
where ind_range = 'R'
and id4 = '&round_nr'
and ID2_source = '&yourstate'
group by id1,test_interp;

Step 5

This step will be used to add new patrons/dairy herds to the Round. (See also Exercise 5 and 6.)
Press **CTRL-PGDN** or click on the **Sample** button to access the Sample form. Sample records
represent each patron's round collection activity. It is the "patron round record" and is the most
critical BRT record. For adding patrons, the option of using the Short Sample form (for minimal
data entry) is not suitable because you cannot enter all required information.

NOTE: Use the information below to guide BRT data entry using the Sample form:
Id1 = pup_id
Id1 Src = pup_state
Id2 = dairy herd prem_id
Id2 Src = dairy herd prem_state
Id3 = patron nr
Id4 = round_nr
Id5 = coll_date
Id6 = test_date
TI = round interp
Ind Range = R

Use the date format dd-MMM-yyyy when entering dates in the ID5 and ID6 fields.

The Ind Range field (marked as Rnd or Ind on the Sample form) indicates whether the Sample record pertains to a patron-round (R) or another patron test (I) during a round. Each patron can have only one patron-round record at a PUP for each round. A dairy herd premises may be linked to more than one patron round record.

NOTE: Each patron-nr (id3) at a PUP (id1-id1_source) should be on one, but only one, Sample record per round (id4) with the ind_range = R. Therefore each patron for a PUP would have only one round interp for each round. However, any particular dairy herd prem-id (id2-id2_source) may be on several Sample records during a round, having ind_range = R, at the same or different PUPs; that is, the herd may be linked to several different patron records in a particular round.

Exercise 4 - Query the Patron Exceptions form

The Patron Exceptions form can be used to query and update BRT records. For example, if patrons were generated as negative, but you later found one that was positive, you can use this form to update the record. If you wanted to find records having positive values for a round, you can execute a query on the Test Interp field with a value of "P" or "S". If the herd premises information was not entered when the record was created, it can be added using this form.

Step 1

Access the Patron Exceptions form. Begin by clicking on the Generic Data Base option from the Main menu. Click on Forms from the Generic Data Base menu. Click on Patron Exceptions from the Forms menu.

Step 2

When accessed, the Patron Exceptions form will be in Query mode. The upper section of the form is used for display purposes only. You can query on any field of the top row in the lower section. Enter your query criteria (i.e., a combination of PUP ID and Round NR) in the top row and press **F8**.

Exercise 5 - New Patrons and/or Official Samples

After the patron records are generated, new patrons or official samples can be added to the PUP or round number. This is done using the **Event Summary** and **Sample** form (not Short Sample). The **Sample** form can be accessed only by going through the Event Summary form. Any access to patron round records must be done by querying the existing Event Summary for the round. **<u>DO NOT</u>** create a second Event Summary for a round.

To query the round event summary, open the Event Summary form and select the **BR-BOV-BRT** label set in the Disease Program Information block. Press **F8** to move the cursor to the Prem ID field in query mode. Enter the *St*BRT premises record. (St = your state code) and press **F8** to execute the query. With the cursor in the Event Summary data entry block, press **F7** to enter Query mode. *St*BRT should be in the prem-id field. Put the cursor in the Round-NR field and enter the Round-NR to be retrieved. The Round-NR is in the format yyyynnn, i.e., 1999002. Press **F8** to execute the query. You can modify the summary totals (nr_neg, nr_pos, nr_oth) at any time. It is not required to enter these totals at all. The report program does **not** use them when creating the BRT report. Counts for the BRTNTL report are derived by counting Sample records (patron round records).

> NOTE: You may use the macro below or the BRTNTL report to get the numbers to enter into the summary.

This macro can be used to generate summary counts (of N, S, and others) at end of a round:

select id1||' '||id1_source||' '||TI, count(*)
from sample
where ind_range = 'R'
and id4 = '&round_nr'
and ID2_source = 'your &state'
group by id1||' '||id1_source||' '||TI

Once the Event Summary has been queried, open the **Sample** form. For BRT, it is necessary to use the **full Sample** form rather than the Short Sample form. The Short Sample does not have all the fields needed for BRT. The Sample form automatically queries all Sample records linked to the Event Summary. You may wish to re-query for only those records linked to the PUP (ID1) for which records are to be added.

Below is a macro that can be used to verify data quality at the end of each round:

```
select id1||' '||id1_source||' '||id3, count(*)
from sample
where ind_range = 'R'
and id4 = '&round_nr'
group by id1||' '||id1_source||' '||id3
having count(*) > 1
```

The result should be "no records selected".

NOTE: Each patron-nr (id3) at a PUP (id1-id1_source) should be on one, but only one, Sample record per round (id4) with the ind_range = R. Therefore each patron for a PUP would have only one round interp for each round. However, any particular dairy herd prem-id (id2-id2_source) may be on several Sample records during a round, having ind_range = R, at the same or different PUPs; that is, the herd may be linked to several different patron records in a particular round.

Exercise 6 - Adding New Patron Records

Step 1

Identify the Prem ID for the new patron. If one does not exist, create it. (See Exercise 1.)

Step 2

To add a new patron to a PUP ID, access the Event Summary record for the desired Patron Round. Access the Sample form and press the **New** button. A blank Sample form appears with the next sequence available.
Fill in the following fields:

Id1	= pup id
Id1_source	= pup state
Id2	= prem id of diary herd
Id2_source	= prem state
Id3	= patron nr
Id4	= round nr
Id5	= collection date
Id6	= test date
Test_interp	= patron round interp
Ind_range	= **R** for patron round record (links patrons to the PUP for the next round)

Step 3

To add a new Patron by Official Sample, follow all directions above with the exception of **ID1** and **Ind_range**.

Id1	= Official
Ind_range	= **I** for patron round record

The following reports and macros are the most critical and useful for BRT operations:

    pupcoll-lst1.sql (list of patrons at a PUP)
    pupcoll-lst-all.sql (list of patrons at all PUP)
    BRTNTL (BMR section J)
    BRT406 (list of patrons at a PUP)
    BRT708 (list of patrons not collected sufficient number of times in a year)
    brtrnds.sql   (list of brt event summaries)